Unit 2 Day 8 WS Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_\_\_\_\_\_

State the domain for each function.

1. f(x) = 2x3+1 2. f(x) = 3. f(x) = 4. f(x) = 2 5. f(x) = 4

Use a graphing utility to graph the following functions. Then state the domain and range for each graph.

6. f(x) = 7. 8. f(x) = 1-2x2 9. f(x) =

10. f(x) = 11. 12. f(x) = 13. f(x) = ln(x-3)

Evaluate the following functions.

\*14. f(x) =

a) f(–1)

b) f(3)

c) f(5)

\*15.

a) f(g(–6))

b) g(f(2))

c) (f+g)(x)

d) (fg)(x)